FIG. 1

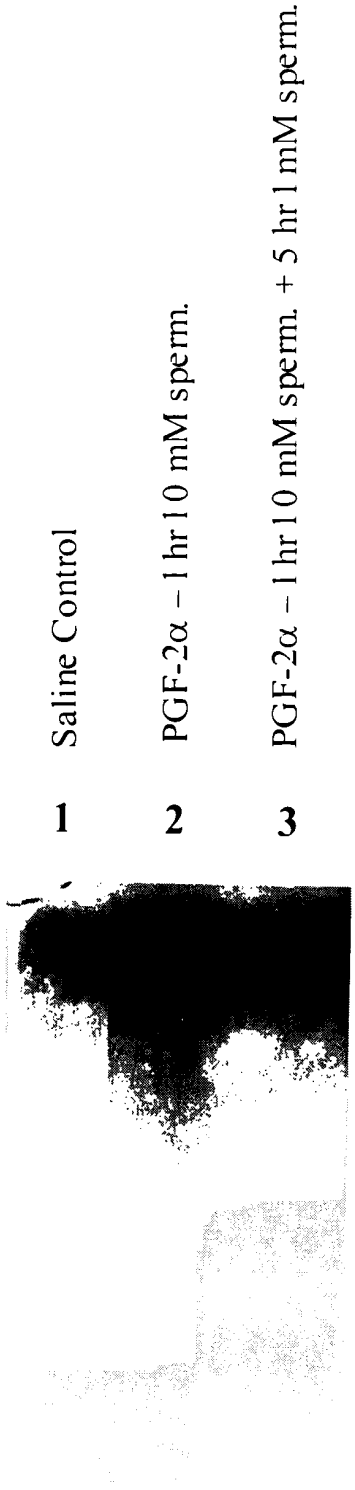
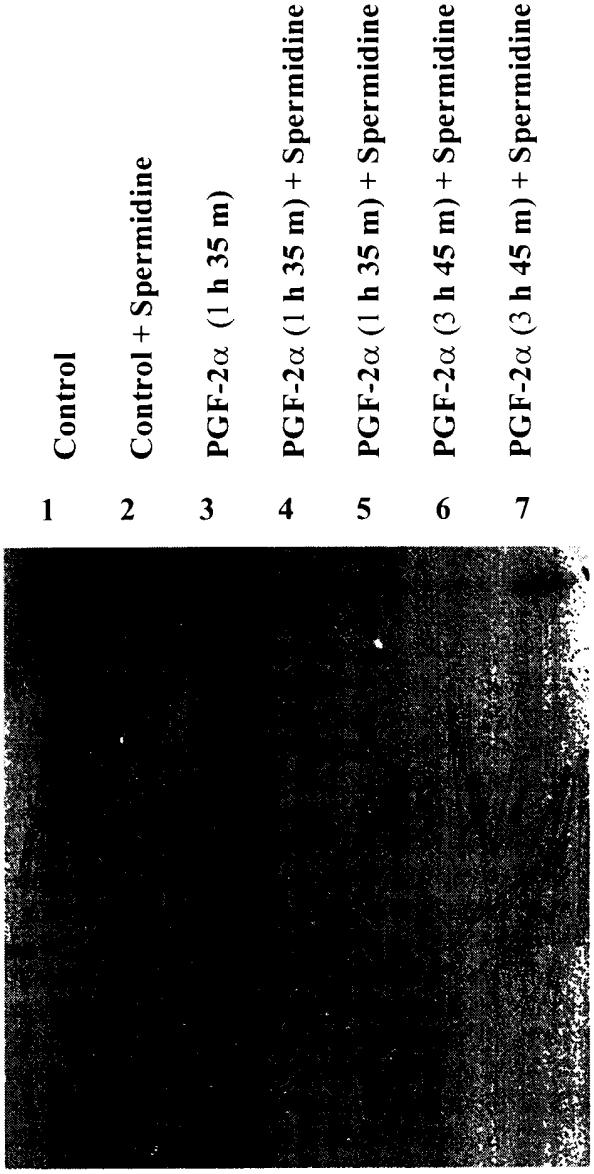


FIG. 2


1 Control
2 Control + Spermidine
3 PGF-2α (1 h 35 m)
4 PGF-2α (1 h 35 m) + Spermidine
5 PGF-2α (1 h 35 m) + Spermidine
6 PGF-2α (3 h 45 m) + Spermidine
7 PGF-2α (3 h 45 m) + Spermidine

TCGAAGACCGGTAAGCACGGCCATGCCAAGGTCCATCTGGTTGGTATTGATATTTTTACTGGGAAGAAATAT
S K T G K H G H A K V H L V G I D I F T G K K Y
GAAGATATCTGCCCGTCGACTCATAACATGGATGTCCCCAACATCAAAAGGAATGATTTCCAGCTGATTGGC
E D I C P S T H N M D V P N I K R N D F Q L I G
ATCCAGGATGGGTACCTATCCCTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGA
I Q D G Y L S L L Q D S G E V R E D L R L P E G
GACCTTGGCAAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCCATG
D L G K E I E Q K Y D C G E E I L I T V L S A M
ACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA**TAA**CTGGCTTCCAGGGTGGCGGTGGTGGCAGCA
T E E A A V A I K A M A K
GTGATCCATGAGCCTACAGAGGCCCCTCCCCCAGCTCTGGCTGGGCCCTTGGCTGGACTCCTATCCAATTTA
TTTGACGTTTTATTTTGGTTTTCCTCACCCCTTCAAACTGTCGGGGAGACCCTGCCCTTCACCTAGCTCCCT
TGGCCAGGCATGAGGGAGCCATGGCCTTGGTGAAGCTACCTGCCTCTTCTCTCGCAGCCCTGATGGGGGAAA
GGGAGTGGGTACTGCCTGTGGTTTAGGTTCCCCTCTCCCTTTTTCTTTTTAATTCAATTTGGAATCAGAAAG
CTGTGGATTCTGGCAAATGGTCTTGTGTCCTTTATCCCACTCAAACCCATCTGGTCCCCTGTTCTCCATAGT
CCTTCACCCCCAAGCACCACTGACAGACTGGGGACCAGCCCCCTTCCCTGCCTGTGTCTCTTCCCAAACCCC
TCTATAGGGGTGACAAGAAGAGGAGGGGGGGAGGGGACACGATCCCTCCTCAGGCATCTGGGAAGGCCTTGC
CCCCATGGGCTTTACCCTTTCCTGTGGGCTTTCTCCCTGACACATTTGTTAAAAATCAAACCTGAATAAAAC
TACAAGTTTAATATGAAAAAAAAAAAAAAAAAAAA
(972 NT, 109 aa)

Figure 3

```
CAGGTCTAGAGTTGGAATCGAAGCCTCTTAAAATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGG
                                    M  A  D  D  L  D  F  E  T  G  D  A  G
CCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGGCCAT
A  S  A  T  F  P  M  Q  C  S  A  L  R  K  N  G  F  V  V  L  K  G  R  P
GTAAGATCGTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGTATTG
C  K  I  V  E  M  S  T  S  K  T  G  K  H  G  H  A  K  V  H  L  V  G  I
ATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAACATGGATGTCCCCAACATCAAAA
D  I  F  T  G  K  K  Y  E  D  I  C  P  S  T  H  N  M  D  V  P  N  I  K
GGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCCCTGCTCCAGGACAGTGGGGAGGTACGAG
R  N  D  F  Q  L  I  G  I  Q  D  G  Y  L  S  L  L  Q  D  S  G  E  V  R
AGGACCTTCGTCTGCCTGAGGGAGACCTTGGCAAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCC
E  D  L  R  L  P  E  G  D  L  G  K  E  I  E  Q  K  Y  D  C  G  E  E  I
TGATCACAGTGCTGTCCGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCTCGAG
L  I  T  V  L  S  A  M  T  E  E  A  A  V  A  I  K  A
```

(488 NT, 151 aa)

Figure 4

```
CAGGTCTAGAGTTGGAATCGAAGCCTCTTAAAATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGG
                                M  A  D  D  L  D  F  E  T  G  D  A  G          13
CCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGGCCAT   144
A  S  A  T  F  P  M  Q  C  S  A  L  R  K  N  G  F  V  V  L  K  G  R  P
GTAAGATCGTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGTATTG
C  K  I  V  E  M  S  T  S  K  T  G  K  H  G  H  A  K  V  H  L  V  G  I          61
ATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAACATGGATGTCCCCAACATCAAAA   288
D  I  F  T  G  K  K  Y  E  D  I  C  P  S  T  H  N  M  D  V  P  N  I  K
GGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCCCTGCTCCAGGACAGTGGGGAGGTACGAG
R  N  D  F  Q  L  I  G  I  Q  D  G  Y  L  S  L  L  Q  D  S  G  E  V  R          109
AGGACCTTCGTCTGCCTGAGGGAGACCTTGGCAAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCC   432
E  D  L  R  L  P  E  G  D  L  G  K  E  I  E  Q  K  Y  D  C  G  E  E  I
TGATCACAGTGCTGTCCGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA**TAA**CTGGCTT
L  I  T  V  L  S  A  M  T  E  E  A  A  V  A  I  K  A  M  A  K  *          154
CCAGGGTGGCGGTGGTGGCAGCAGTGATCCATGAGCCTACAGAGGCCCCTCCCCCAGCTCTGGCTGGGCCCT   576
TGGCTGGACTCCTATCCAATTTATTTGACGTTTTATTTTGGTTTTCCTCACCCCTTCAAACTGTCGGGGAGA
CCCTGCCCTTCACCTAGCTCCCTTGGCCAGGCATGAGGGAGCCATGGCCTTGGTGAAGCTACCTGCCTCTTC   720
TCTCGCAGCCCTGATGGGGGAAAGGGAGTGGGTACTGCCTGTGGTTTAGGTTCCCCTCTCCCTTTTTCTTTT
TAATTCAATTTGGAATCAGAAAGCTGTGGATTCTGGCAAATGGTCTTGTGTCCTTTATCCCACTCAAACCCA   864
TCTGGTCCCCTGTTCTCCATAGTCCTTCACCCCCAAGCACCACTGACAGACTGGGGACCAGCCCCCTTCCCT
GCCTGTGTCTCTTCCCAAACCCCTCTATAGGGGTGACAAGAAGAGGAGGGGGGGAGGGGACACGATCCCTCC  1008
TCAGGCATCTGGGAAGGCCTTGCCCCCATGGGCTTTACCCTTTCCTGTGGGCTTTCTCCCTGACACATTTGT
TAAAAATCAAACCTGAATAAAACTACAAGTTTAATATGAAAAAAAAAAAAAAAAAAAA               1139
```

(1139 NT, 154 aa)

Figure 5

rat vs. human(BC000751 or NM_001970) 96.5% identity (coding)

```
              10         20         30         40         50         60
rat     ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
        :::::::::: :::::::::::::::::::::::::::::::::::::::::::::::::
himan   ATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
              10         20         30         40         50         60

              70         80         90        100        110        120
rat     CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGGCCATGTAAGATC
        :::::::::::::::::::::::::: :::::::::::::: ::::::::::::::::::
human   CAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATC
              70         80         90        100        110        120

             130        140        150        160        170        180
rat     GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGT
        :::::::::::::::::::::::::::::::: ::::: ::::::::::::::::::::::
human   GTCGAGATGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGT
             130        140        150        160        170        180

             190        200        210        220        230        240
rat     ATTGATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAACATGGAT
        ::::: :: :::::::::::::::::::::::::::::::::: :::::::: ::::::
human   ATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGAT
             190        200        210        220        230        240

             250        260        270        280        290        300
rat     GTCCCCAACATCAAAAGGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC
        :::::::::::::::::::::::: ::::::::::::::::::::::::::::::::::
human   GTCCCCAACATCAAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCA
             250        260        270        280        290        300

             310        320        330        340        350        360
rat     CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGAGACCTTGGC
        :::::::::::::: :::::::::::::::::::::::::: ::::::::::::::::::
human   CTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGC
             310        320        330        340        350        360

             370        380        390        400        410        420
rat     AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCC
        :::::::::::::::::::: :::::::::::::::::::::::::: :::::::: :::
human   AAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCC
             370        380        390        400        410        420

             430        440        450        460
rat     ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA
        ::::::::::::::::::::::::::::::::::::::::::
human   ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA
        430    440    450    460
```

Figure 6

rat vs. human(NM_020390) 72.5% identity (coding)

```
                10        20        30        40        50        60
rat     ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
        :::::::: ::  : :: :::   :: :::::::: ::::: ::   ::: : ::: :::
human   ATGGCAGACGAAATTGATTTCACTACTGGAGATGCCGGGGCTTCCAGCACTTACCCTATG
                10        20        30        40        50        60

                70        80        90       100       110       120
rat     CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGGCCATGTAAGATC
        :::::::: :: :: :: :: :: :: :: :::::::::::: :: :: ::::: :: ::
human   CAGTGCTCGGCCTTGCGCAAAAACGGCTTCGTGGTGCTCAAAGGACGACCATGCAAAATA
                70        80        90       100       110       120

               130       140       150       160       170       180
rat     GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGT
        :: :::::::: ::::: :: ::::: :::::::: :::::::::::: :: :: :::::
human   GTGGAGATGTCAACTTCCAAAACTGGAAAGCATGGTCATGCCAAGGTTCACCTTGTTGGA
               130       140       150       160       170       180

               190       200       210       220       230       240
rat     ATTGATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAACATGGAT
        :::::::::: :: :: :: :::::::::::::: :: :: :: ::::: :::::::::
human   ATTGATATTTTCACGGGCAAAAAATATGAAGATATTTGTCCTTCTACTCACAACATGGAT
               190       200       210       220       230       240

               250       260       270       280       290       300
rat     GTCCCCAACATCAAAAGGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC
        :: :: :: :: :: :: :::::::  :: :::::  :::: :: ::::: ::::: :::
human   GTTCCAAATATTAAGAGAAATGATTATCAACTGATATGCATTCAAGATGGTTACCTTTCC
               250       260       270       280       290       300

               310       320       330       340       350       360
rat     CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGAGACCTTGGC
        :::::    :: : ::: :: :: :: ::::: :::   ::::: :: :: :: :: :::
human   CTGCTGACAGAAACTGGTGAAGTTCGTGAGGATCTTAAACTGCCAGAAGGTGAACTAGGC
               310       320       330       340       350       360

               370       380       390       400       410       420
rat     AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCC
        :: :: :: :::   :: ::  :    :: :::::  : : : :  : :: ::: ::
human   AAAGAAATAGAGGGAAAATACAATGCAGGTGAAGATGTACAGGTGTCTGTCATGTGTGCA
               370       380       390       400       410       420

               430       440       450       460
rat     ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA
        ::::  :: ::    ::::: :: :: ::  ::   :::::
human   ATGAGTGAAGAATATGCTGTAGCCATAAAACCCT--GCAAAT
               430       440       450         460
```

Figure 7

rat vs. mouse (BC003889) 98.3% identity (coding)

```
                10        20        30        40        50        60
rat     ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
        ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
mouse   ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG
                10        20        30        40        50        60

                70        80        90       100       110       120
rat     CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGGCCATGTAAGATC
        ::::::::::::::::::::::::::::::::::::::::: ::::::::::::::::::
mouse CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATC
                70        80        90       100       110       120

               130       140       150       160       170       180
rat     GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGT
        ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
mouse   GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGC
               130       140       150       160       170       180

               190       200       210       220       230       240
rat     ATTGATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAACATGGAT
        ::::: ::::::::::::::::::::::::::::::::::::::::::::::: ::::::
mouse   ATTGACATTTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCGACTCATAATATGGAT
               190       200       210       220       230       240

               250       260       270       280       290       300
rat     GTCCCCAACATCAAAAGGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC
        :::::::::::::::: ::::::: ::::::::::::::::::::::::::::::::::::
mouse   GTCCCCAACATCAAACGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC
               250       260       270       280       290       300

               310       320       330       340       350       360
rat     CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGAGACCTTGGC
        :::::::::::::::::::::::::::::::::::::::::::: ::::::::::::::::
mouse   CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAAGGAGACCTTGGC
               310       320       330       340       350       360

               370       380       390       400       410       420
rat     AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCC
        :::::::::::::::::::::::::::::::::::::::::::::::::::::::::::: :::
mouse   AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCTGCC
               370       380       390       400       410       420

               430       440       450       460
rat     ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA
        ::::::::::::::::::::::::::::::::::::::::::
mouse   ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA
               430       440       450       460
```

Figure 8

rat vs. human(BC000751 or NM_001970) 100.0% identity

```
              10        20        30        40        50        60
rat    MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
       ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
human  MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
              10        20        30        40        50        60

              70        80        90       100       110       120
rat    IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
       ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
human  IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
              70        80        90       100       110       120

             130       140       150
rat    KEIEQKYDCGEEILITVLSAMTEEAAVAIKAMAK
       ::::::::::::::::::::::::::::::::::
human  KEIEQKYDCGEEILITVLSAMTEEAAVAIKAMAK
             130       140       150
```

Figure 9

rat vs. human(NM_020390) 82.5% identity

```
                10        20        30        40        50        60
rat     MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
        :::..:: :::::::.:.:::::::::::::::::::::::::::::::::::::::::
human   MADEIDFTTGDAGASSTYPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
                10        20        30        40        50        60

                70        80        90       100       110       120
rat     IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
        :::::::::::::::::::::::::::::.::: ::::::::: ..:::::::.::::.::
human   IDIFTGKKYEDICPSTHNMDVPNIKRNDYQLICIQDGYLSLLTETGEVREDLKLPEGELG
                70        80        90       100       110       120

              130       140       150
rat     KEIEQKYDCGEEILITVLSAMTEEAAVAIKAMAK
        :::: ::. ::.. ..:. ::.:: :::::   :
human   KEIEGKYNAGEDVQVSVMCAMSEEYAVAIKP-CK
              130       140       150
```

Figure 10

rat vs. mouse (BC003889)100.0% identity

```
                10        20        30        40        50        60
rat     MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
        ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
mouse   MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
                10        20        30        40        50        60

                70        80        90       100       110       120
rat     IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
        ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
mouse   IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
                70        80        90       100       110       120

               130       140       150
rat     KEIEQKYDCGEEILITVLSAMTEEAAVAIKAMAK
        ::::::::::::::::::::::::::::::::
mouse   KEIEQKYDCGEEILITVLSAMTEEAAVAIKAMAK
               130       140       150
```

Figure 11

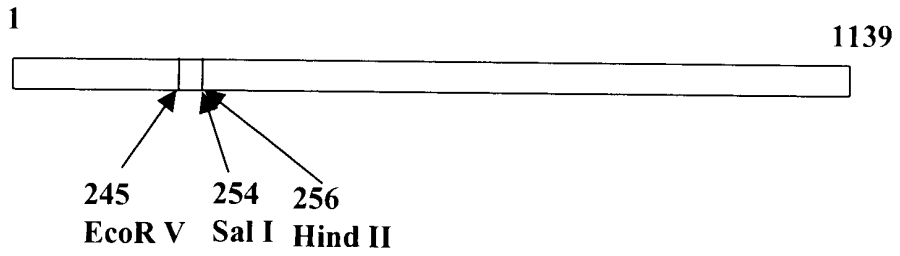
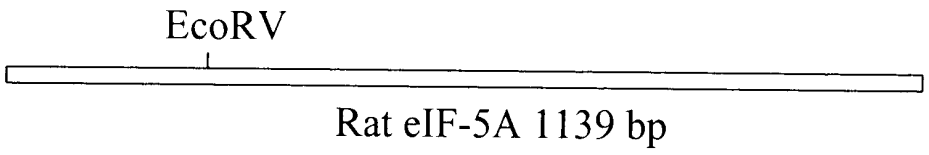


Figure 12

Southern Blot of Rat Genomic DNA



EcoR1 EcoRV BamH1

Full-length rat eIF-5A cDNA probe

FIG. 13

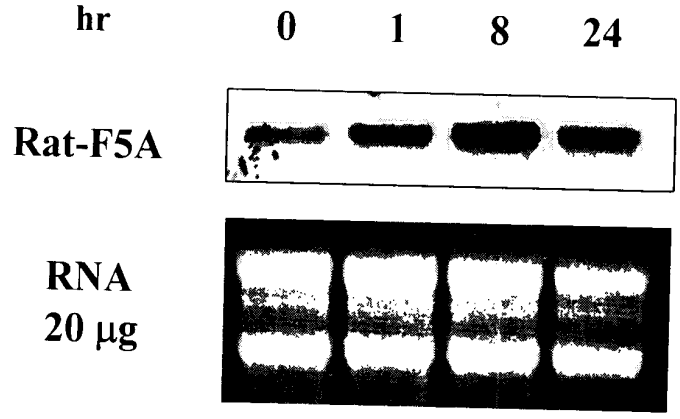


Figure 14

GCTGTGTATTATTGGGCCCATAAGAACCACATACCTGTGCTGAGTCCTGCACTCACAGACGGCTCACTGGGT
 A V Y Y W A H K N H I P V L S P A L T D G S L G
GACATGATCTTTTTCCATTCCTATAAAAACCCAGGCTTGGTCCTGGACATCGTTGAAGACCTGCGGCTCATC
 D M I F F H S Y K N P G L V L D I V E D L R L I
AACATGCAGGCCATTTTCGCCAAGCGCACTGGGATGATCATCCTGGGTGGAGGCGTGGTCAAGCACCACATC
 N M Q A I F A K R T G M I I L G G G V V K H H I
GCCAATGCTAACCTCATGCGGAATGGAGCTGACTACGCTGTTTATATCAACACAGCCCAGGAGTTTGATGGC
 A N A N L M R N G A D Y A V Y I N T A Q E F D G
TCAGACTCAGGAGCCCGGCCAGATGAGGCTGTCTCCTGGGGCAAGATCCGGATGGATGCACAGCCAGTAAAG
 S D S G A R P D E A V S W G K I R M D A Q P V K
GTCTATGCTGATGCATCTCTGGTTTTCCCCTTGCTGGTGGCTGAGACATTCGCCCAAAAGGCAGATGCCTTC
 V Y A D A S L V F P L L V A E T F A Q K A D A F
AGAGCTGAGAAGAATGAGGAC**TGA**GCAGATGGGTAAAGACGGAGGCTTCTGCCACACCTTTATTTATTATTT
 R A E K N E D
GCATACCAACCCCTCCTGGGCCCTCTCCTTGGTCAGCAGCATCTTGAGAATAAATGGCCTTTTTGTTGGTTT
CTGTAAAAAAAGGACTTTAAAAAAAAAAAA

(606 NT, 151 aa)

Figure 15

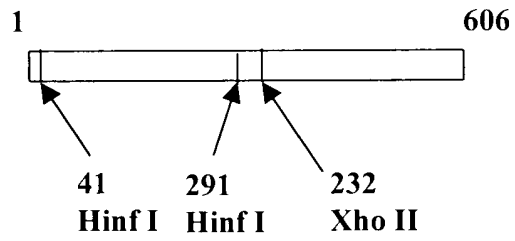


Figure 16

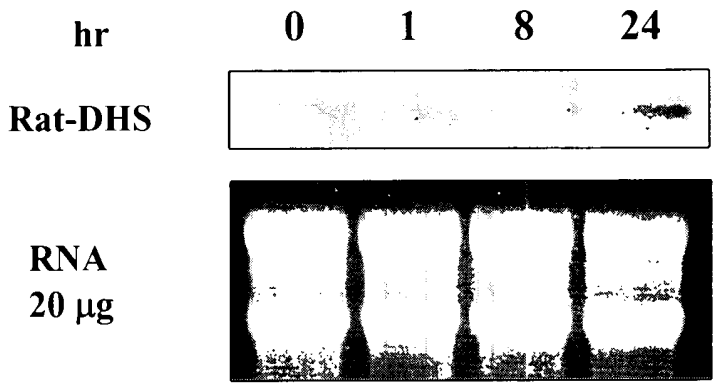


Figure 17

rat vs. human (BC000333) 87.4% identity (coding)

```
                10        20        30        40        50        60
rat     GCTGTGTATTATTGGGCCCATAAGAACCACATACCTGTGCTGAGTCCTGCACTCACAGAC
          : :::::::: :::::::: :::::::::: :::::: : ::::: ::::: ::::::
human   TCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGAC
                10        20        30        40        50        60

                70        80        90       100       110       120
rat     GGCTCACTGGGTGACATGATCTTTTTCCATTCCTATAAAAACCCAGGCTTGGTCCTGGAC
        ::::: ::::: :::::::::: :::::::::: :: ::::: ::: ::::::::::
human   GGCTCGCTGGGCGACATGATCTTCTTCCATTCCTACAAGAACCCGGGCCTGGTCCTGGAC
                70        80        90       100       110       120

               130       140       150       160       170       180
rat     ATCGTTGAAGACCTGCGGCTCATCAACATGCAGGCCATTTTCGCCAAGCGCACTGGGATG
        :::::::: :::::: ::::::::::::  :::::::: :: :::::: ::::::::::
human   ATCGTTGAGGACCTGAGGCTCATCAACACACAGGCCATCTTTGCCAAGTGCACTGGGATG
               130       140       150       160       170       180

               190       200       210       220       230       240
rat     ATCATCCTGGGTGGAGGCGTGGTCAAGCACCACATCGCCAATGCTAACCTCATGCGGAAT
        ::::: ::::: :: ::::::::::::::::::: :::::::: ::::::::::::::
human   ATCATTCTGGGCGGGGGCGTGGTCAAGCACCACATTGCCAATGCCAACCTCATGCGGAAC
               190       200       210       220       230       240

               250       260       270       280       290       300
rat     GGAGCTGACTACGCTGTTTATATCAACACAGCCCAGGAGTTTGATGGCTCAGACTCAGGA
        :: :: :::::::::::::: :::::::::::::::::::::::::::::: ::::::::
human   GGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGGT
               250       260       270       280       290       300

               310       320       330       340       350       360
rat     GCCCGGCCAGATGAGGCTGTCTCCTGGGGCAAGATCCGGATGGATGCACAGCCAGTAAAG
        ::::: ::::: :::::::::::::::::::::::::::: :::::::::::: :: :::
human   GCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAG
               310       320       330       340       350       360

               370       380       390       400       410       420
rat     GTCTATGCTGATGCATCTCTGGTTTTCCCCTTGCTGGTGGCTGAGACATTCGCCCAAAAG
        :::::::::: :: :: ::::: :::::: :::: :::::::: :: :: ::::: :::
human   GTCTATGCTGACGCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAG
               370       380       390       400       410       420

               430       440       450
rat     GCAGATGCCTTCAGAGCTGAGAAGAATGAGGAC
          ::::::::::    ::::::::: ::::::
human   ATGGATGCCTTCATGCATGAGAAGAACGAGGAC
               430       440       450
```

Figure 18

FIG. 19

Hours After PGF-2α Treatment

0 1 24


Saline – 3 hours *in vitro*
PGF-2α – 3 hours *in vitro*
PGF-2α – 6 hours *in vitro*

Figure 20

FIG. 21

Southern Blot of Rat Genomic DNA

EcoRV

Partial rat DHS cDNA probe